

Case 2799

***Simulium (Nevermannia) juxtacrenobium* (Insecta, Diptera): a proposal that availability of the specific name be taken from the intended original description by Bass & Brockhouse, 1990**

Jon A.B. Bass

*Institute of Freshwater Ecology, Monkswood Experimental Station,
Abbots Ripton, Huntingdon PE17 2LS, U.K.*

Charles Brockhouse

*Department of Botany, University of Toronto, Toronto, Ontario,
Canada M5S 1A1*

Abstract. The purpose of this application is to ensure that the specific name of *Simulium (Nevermannia) juxtacrenobium*, recently published for a new species of blackfly (SIMULIIDAE), is treated as first made available by Bass & Brockhouse (1990), who described the morphology, cytology and habitat of the species, and who designated the holotype. Another paper, discussing the supernumerary chromosomes of this and related species, unexpectedly appeared first but to take this as the original publication would mean that the nominal species would neither be properly described nor have preserved type material.

1. During our work on a new species of blackfly (SIMULIIDAE) in the British fauna two papers were prepared in which our selected new specific name *juxtacrenobium* was used, one ('A') giving a formal description, with morphological, cytological and ecological information and the designation of a holotype, the other ('B') dealing more esoterically with the occurrence of supernumerary chromosomes in this and related species.

2. The paper 'A' containing the formal description of *Simulium (Nevermannia) juxtacrenobium* Bass & Brockhouse was expected to appear first, but because of an unforeseen delay in publication was not actually published until 1990, while paper 'B' by Brockhouse, Bass, Feraday & Straus was published in August 1989. Paper 'B' refers to paper 'A' as 'Bass, J.A.B. and Brockhouse, C. 1989... In press'.

3. The supernumerary B chromosomes of *Simulium juxtacrenobium* are described, illustrated and discussed in comparison with those of other taxa by Brockhouse et al. (August 1989) and their paper ('B') thus gives formal availability to the name *juxtacrenobium*.

4. If the name *juxtacrenobium* was to be taken from Brockhouse et al. (1989), in accordance with accidental and unintended priority, there would be serious difficulties with regard to typification of the nominal species. As mentioned above, the holotype was designated in paper 'A' (Bass & Brockhouse, July 1990), and this work would in any event always have to be cited for the morphological description of the species, its type locality and its morphological comparison with closely related blackflies; the

holotype designated in the paper is an adult male fly preserved in the Natural History Museum, London. If the highly specialized chromosomal paper of Brockhouse et al. (1989) was taken as the 'original publication' of *S. juxtacrenobium* for availability purposes there would be no preserved conventional type material.

5. In the circumstances described, it makes no sense to take the name *juxtacrenobium* from the paper 'B' which appeared first and which only accidentally makes the name formally available. Drs R.M. Feraday and N.A. Straus, our co-authors of paper 'B', are in agreement with this.

6. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the specific name *juxtacrenobium* Brockhouse, Bass, Feraday & Straus, 1989, as published in the binomen *Simulium juxtacrenobium*, is unavailable;
- (2) to place on the Official List of Specific Names in Zoology the name *juxtacrenobium* Bass & Brockhouse, 1990, as published in the binomen *Simulium (Nevermannia) juxtacrenobium*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *juxtacrenobium* Brockhouse, Bass, Feraday & Straus, 1989, as published in the binomen *Simulium juxtacrenobium*, ruled in (1) above to be unavailable.

References

- Bass, J.A.B. & Brockhouse, C. 1990. A new British species of the *Simulium vernum* group, with comments on its ecology and life history (Diptera: Simuliidae). *Aquatic Insects*, **12**: 65–84.
- Brockhouse, C., Bass, J.A.B., Feraday, R.M. & Straus, N.A. 1989. Supernumerary chromosome evolution in the *Simulium vernum* group (Diptera: Simuliidae). *Genome*, **32**: 516–521.